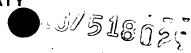
PATENT COOPERATION TREATY



PCT



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	
P00033379-P0	•	see Form PCT/ISA/220 as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/JP2004/007297	21/05/2004	28/05/2003
Applicant		
MATSUSHITA ELECTRIC INDUST	מיים מיים מדוב מיים	·
	TRIAL CO., BID.	
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Auth	nority and is transmitted to the applicant
This International Search Report consists	of a total of sheets.	
X It is also accompanied by	a copy of each prior art document cited in this	report.
Basis of the report		
With regard to the language, the language in which it was filed, unli	international search was carried out on the bas ess otherwise indicated under this item.	sis of the international application in the
The international this Authority (Rul	search was carried out on the basis of a transle e 23.1(b)).	ation of the international application furnished to
<u></u>	tide and/or amino acid sequence disclosed	in the international application, see Box No. I.
2. Certain claims were four	nd unsearchable (See Box II).	,
3. Unity of invention is lack	king (see Box III).	
4. With regard to the title ,		·
X the text is approved as sul	omitted by the applicant.	
the text has been establish	ned by this Authority to read as follows:	
5. With regard to the abstract,		
X the text is approved as sub	omitted by the applicant.	•
the text has been establish may, within one month from	eed, according to Rule 38.2(b), by this Authority in the date of mailing of this international searc	as it appears in Box No. IV. The applicant heport, submit comments to this Authority.
With regards to the drawings,		·
	ublished with the abstract is Figure No5_	
X as suggested by the		
as selected by this	Authority, because the applicant failed to sugg	gest a figure.
	Authority, because this figure better character	izes the invention.
b none of the figures is to be	published with the abstract.	

International Application No T/JP2004/007297

A. CLASSIFICATION OF SUBJE IPC 7 F25B49/02

TTER F04B49/06

F04B39/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $IPC \ 7 \quad F25B \quad F04B$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	`Relevant to claim No
X	PATENT ABSTRACTS OF JAPAN vol. 014, no. 152 (M-0953), 23 March 1990 (1990-03-23) -& JP 02 013748 A (TOSHIBA CORP; OTHERS: 01), 18 January 1990 (1990-01-18)	1-3, 16-18
Y	abstract	8,10, 12-15, 24-27, 33-37
A :		4-7,9, 11, 19-23, 28-32
	-/	

Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
 Special categories of cited documents: 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed 	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 9 September 2004	Date of mailing of the international search report 28/09/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nt, Fax: (+31-70) 340-3016	Authorized officer De Graaf, J.D.

International Application No

	ation) DOCUMENTS DERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Retevant to claim No.
Y	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 14, 22 December 1999 (1999-12-22) -& JP 11 241846 A (TOSHIBA CORP), 7 September 1999 (1999-09-07) abstract	8,10, 12-14
Υ	EP 0 940 641 A (MATSUSHITA ELECTRIC IND CO LTD) 8 September 1999 (1999-09-08) the whole document	15, 24-27, 33-37
X	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 07, 3 July 2002 (2002-07-03) -& JP 2002 081770 A (DAIKIN IND LTD), 22 March 2002 (2002-03-22) Fig. 3, line with squares indicates compressor speed (see par. 17). abstract; figure 3	1,16,25, 36,37
X	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 14, 22 December 1999 (1999-12-22) -& JP 11 248228 A (MATSUSHITA ELECTRIC IND CO LTD), 14 September 1999 (1999-09-14) abstract; figure 12	1,16,25, 36
X .	US 6 206 643 B1 (JEONG WON-BAE) 27 March 2001 (2001-03-27) column 3, line 39 -column 4, line 3; figures 5,6	1,16,25, 36
Α	PATENT ABSTRACTS OF JAPAN vol. 009, no. 164 (M-395), 10 July 1985 (1985-07-10) -& JP 60 036794 A (HITACHI SEISAKUSHO KK), 25 February 1985 (1985-02-25) abstract	1
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 02, 29 February 2000 (2000-02-29) -& JP 11 311186 A (TOSHIBA CORP), 9 November 1999 (1999-11-09) abstract; figure 1	1
A .	US 5 074 120 A (KITAMOTO MANABU) 24 December 1991 (1991-12-24) figure 8	1 .
A	EP 0 622 445 A (MITSUBISHI ELECTRIC CORP) 2 November 1994 (1994-11-02) abstract	15

International Application No
37/JP2004/007297

	(Continuation) DOCUMENTS: DERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
\	US 5 323 619 A (KIM TAE DUK) 28 June 1994 (1994-06-28)		
4	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 12, 3 January 2001 (2001-01-03) -& JP 2000 266444 A (MATSUSHITA REFRIG CO LTD), 29 September 2000 (2000-09-29) abstract		
1	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 13, 30 November 1999 (1999-11-30) -& JP 11 230627 A (MATSUSHITA ELECTRIC IND CO LTD), 27 August 1999 (1999-08-27) abstract		
		·	
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International Application No

Information on patent family members

J/JP2004/007297 Patent family Patent document Publication **Publication** cited in search report date member(s) date JP 02013748 18-01-1990 JP 2567042 B2 25-12-1996 JP 11241846 07-09-1999 CN 1229899 A ,B 29-09-1999 EP 0940641 Α 08-09-1999 JP 14-09-1999 11248271 A 1227907 A ,B CN 08-09-1999 DE 69907546 D1 12-06-2003 69907546 T2 DE 18-03-2004 0940641 A2 EP 08-09-1999 2198802 T3 ES 01-02-2004 US 6044660 A 04-04-2000 US 6216476 B1 17-04-2001 JP 2002081770 NONE Α 22-03-2002 JP 11248228 0 NONE US 6206643 27-03-2001 2000002104 A 15-01-2000 B1 KR BR 9915628 A 27-11-2001 IT MI991351 A1 18-12-2000 JP 2000104665 A 11-04-2000 JP 60036794 0 NONE NONE JP 11311186 0 US 5074120 Α 24-12-1991 JP 3007853 A 16-01-1991 ΑU 612296 B2 04-07-1991 ΑU 5622890 A 06-12-1990 2235550 A ,B GB 06-03-1991 KR 9305662 B1 24-06-1993 EP 0622445 Α 02-11-1994 BR 9401605 A 22-11-1994 1095152 A ,B CN 16-11-1994 DE 69420611 D1 21-10-1999 DE 69420611 T2 31-05-2000 EP 0622445 A1 02-11-1994 0844300 A2 EP 27-05-1998 EP 0846925 A2 10-06-1998 EP 0846926 A2 10-06-1998 EP 0846751 A2 10-06-1998 EP 0852323 A2 08-07-1998 2138037 T3 ES 01-01-2000 JP 2882279 B2 12-04-1999 7208819 A JP 11-08-1995 KR 137844 B1 01-07-1998 SG 67329 A1 21-09-1999 5531080 A 02-07-1996 US ' US 5323619 Α 28-06-1994 KR 133053 B1 21-04-1998 JP 6101925 A 12-04-1994 JP 2000266444 29-09-2000 NONE JP 11230627 4 Α NONE